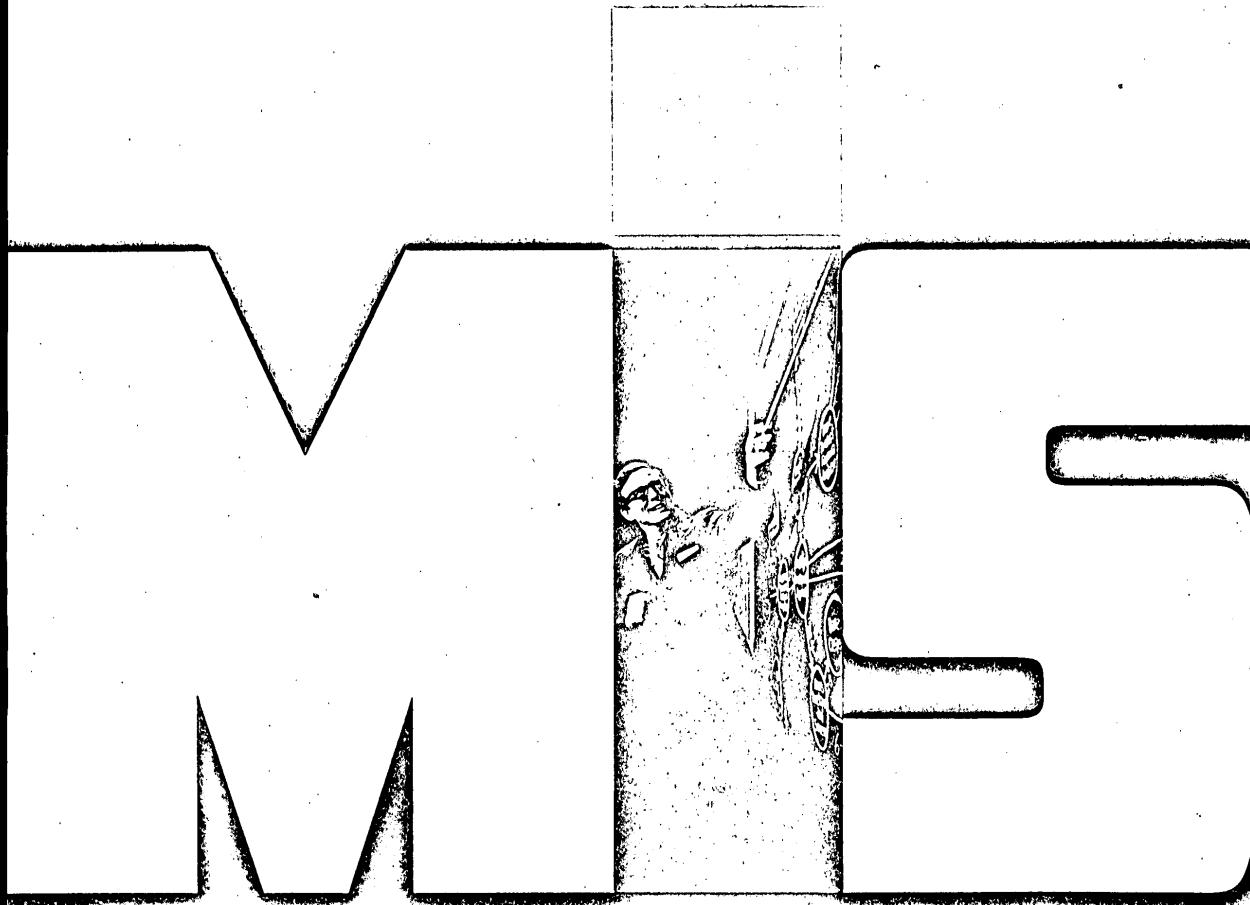


amf mfg



- E. Limitations of management science methodologies and techniques
- F. What information is needed for disciplined management decision-making?
- G. Who needs the information, where is it, who provides it?
- H. Should management scientists manage?
- I. Examples of practical results achieved through the application of management science

V. Technology for MIS

- A. Present status and future trends in MIS hardware and systems approaches
- B. Developments in computers, storage devices, display devices and communications
- C. Impact of mini-computers and computer utilities
- D. Role of higher level languages for managers, systems analysts and programmers
- E. Cost/performance implications of new technology for period 1970-1980
- F. Adapting the MIS to changing technology through emulation, higher level languages and other means

VI. Managing the MIS Function

- A. MIS project organization, management and control
- B. Human resources for MIS development
- C. Qualifications of the MIS director:
 - 1. Should he have a technical background?
- D. Relationship of the MIS director to top management and line management
- E. Problems in justification of MIS
- F. Selection and utilization of outside consultants, contractors and packages
- G. Examples of MIS project organization and system development experience

VII. Case Studies of MIS Development

- A. Manufacturing company
- B. Financial institution

attended AMR management seminars includes:

Harvester	Morgan Guaranty Trust	Sperry Rand
um & Chemical	Motorola	E. R. Squibb & Sons
K	Nabisco	Standard Oil
any	North American Rockwell	TRW
	Olin Mathieson Chemical	J. Walter Thompson
	Owens-Illinois	Time Inc.
	PPG Industries	Travelers Insurance Co.
	Pan American Airways	TV Guide
	Charles Pfizer & Co.	Union Oil of California
	Philip Morris	Uniroyal
	Procter & Gamble	U.S. Air Force
ought	Quaker Oats	U.S. Army
ton	RCA	U.S. Navy
ohn & Adams	Revlon	U.S. Steel
uglas	Reynolds Metals	Warner-Lambert
	Richardson-Merrell	Westinghouse
	Schick	Xerox
pany	Sears, Roebuck & Co.	Young & Rubicam
& Dohme	Smith Kline & French	
Life Ins.	Sperry & Hutchinson	

SEMINAR FACULTY

Robert V. Head - Course Director

Robert V. Head is nationally known as an author, speaker and consultant in the information systems field. A Phi Beta Kappa, Mr. Head was formerly with IBM's Systems Research Institute; Vice President, Security National Bank; and President, Software Resources. He is an editor of *Datamation* and the *Journal of Systems Management*. He is also the author of *Real-Time Business Systems*, Holt, Rinehart & Winston. A frequent speaker at national meetings, his numerous articles and papers on information systems have appeared in almost every major business publication. Mr. Head has over 14 years experience in information systems design and is currently *President of the Society for Management Information Systems*.



Richard F. Coleman is President of Applied Computer Technology in San Francisco. Formerly Director of Automation for the U.S. Savings and Loan League, he established their Computer Service Division. As Planning Manager of Montgomery Ward, he developed the Planning and Management Information Systems for their expansion program. He has held academic posts with the University of San Francisco and the University of California and served as staff speaker for the USF Management Development Center.



Dr. James V. Milano is Director of Corporate Information Services of Chas. Pfizer & Co., Inc. Formerly Chief of Systems for the U.S. Army, Dr. Milano has served on the faculty of George Washington University. An experienced lecturer, he is the author of numerous systems, articles, among them: "Modular Method of Structuring MIS."



John S. Christenson is Manager of Computer Applications & Services for Caltex Petroleum Corp. in New York. Mr. Christenson, in systems development since 1957, was the project manager of the original Caltex MIS, which has been operating since 1963.



Richard E. Sprague is President of Personal Data Services Corp. Formerly Vice President of Computer Research Corp., he was a Partner and Director of Advanced Business Systems for Touche, Ross, Bailey and Smart. Author of *Electronic Business Systems*, Mr. Sprague has an extraordinarily wide background in information systems development.



Albert E. Suter is Executive Vice President of L. B. Knight Associates, a leading management consulting firm. The holder of BME and MBA degrees, Mr. Suter is a frequent speaker at national societies and is best known for his work in information systems and control.



Robert N. Hodgson is Vice President and Director of Management Planning Systems of Synergetic Software Systems in Houston. Formerly with IBM and Continental Oil, he has been in corporate information systems development since 1957. Mr. Hodgson is the author of *Management and The Computer in Information and Control Systems*, McGraw Hill.



MANAGEMENT INFORMATION SYSTEMS

San Francisco—January 6-8

The Fairmont Hotel

Chicago—February 8-10

The Conrad Hilton Hotel

New York—March 1-3

The Roosevelt Hotel

The concept of integrated management information systems was originally highly promoted and taken quite seriously. Initial efforts were received with great expectation but were followed by a record of mild successes and substantial disenchantment. Much has been learned in the intervening time; and based upon the information gained from painful starts, companies have only recently been able to operate economically successful systems. David Hertz, Pres. of McKinsey & Co., estimates that 125 companies are today profitably operating computer-based management information systems.

Among many timely elements studied will be the planning process and the incorporation of "what if" models into the system to aid general managers in planning decisions.

In view of the extensive nature of the subject, each lecturer has been chosen for his outstanding reputation, superior expertise and precise knowledge of a specific area of MIS development.

About AMR

AMR is a leading management education organization structured to fill the need for a superior level of management information. It distinguishes itself from other organizations on the basis of objectivity and quality. AMR is an entirely independent educational organization, not affiliated with software, consulting, or any other type firms. To maintain its reputation for excellence, AMR retains a continuing faculty of distinguished business leaders, practitioners and researchers from industry, government and the professions.

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SEMINAR OUTLINE

I. MIS—A Conceptual Overview

- A. What is an MIS?
- B. Why have one?
- C. Is MIS really new?
- D. Evolution of MIS
- E. Theory of MIS
- F. Continuity of MIS with earlier principles:
 1. Scientific management
 2. Management by exception

II. Developing the Data Base

- A. Data base concepts and state of the art
- B. Data base organization principles and techniques
- C. Levels of data base organization and usage
- D. Principles and limitations of information retrieval
- E. Data management systems, languages and software
- F. Approaches to data elements identification and definition
- G. Redundancy problems in data base organization, development and usage
- H. Role of specialized data bases for different industries
- I. Trends in data management systems and software
- J. Examples of data base organization and development

III. Organization Impact of MIS

- A. Overall impact of MIS on corporate organization and management
- B. Role of top management in MIS design, development and usage

IV. Role of Management Science in MIS

- A. What is management science (operations research)?
- B. Quantitative approaches to decision-making by means of modeling, linear and non-linear programming, etc.
- C. Programmed versus non-programmed decisions
- D. Decision-making under conditions of uncertainty

A partial list of clients and some of those firms whose key executives have

AT&T	Container Corp. of America	IBM
Allis-Chalmers	Corning Glass	INA
Anaconda Aluminum	D'Arcy Advertising	International
Anheuser-Busch	Dow Chemical	Johns-Manville
Atlantic Richfield	Doyle, Dane, Bernbach	Kaiser Aluminum
Avon Products	Du Pont	Kimberly-Clark
N. W. Ayer	Eastman Kodak	Kraft Foods
Bank of America	Equitable Life Assurance	Kroger Company
Bethlehem Steel	Fairchild	Lever Brothers
Boeing	Firestone Tire	Eli Lilly
Bristol-Myers	First National City Bank	Ling-Temco-V
Campbell Soup	Foot, Cone & Belding	Thomas J. Lip
Canadian Ind., Ltd.	Ford Motor Co.	MacManus, Jr.
Caterpillar Tractor	General Electric	McDonnell De
Chase Manhattan Bank	General Foods	McGraw-Hill
Chesebrough-Pond's	General Motors	Mennen Com
Chrysler Corporation	Genesco	Merck Sharp
Ciba Pharmaceuticals	Gillette	Metropolitan L
Colgate-Palmolive	Green Giant	Mobil Oil
Conn. General Life Ins.	Honeywell	Monsanto

REGISTRATION AND FEES

REGISTRATION: Registration must be made in advance and may be made up to the time of the meeting subject to confirmation. Complete and return the above coupon or, if you prefer, telephone registrations are acceptable. Early registration is recommended, as attendance is limited.

FEE: The full registration fee listed below is payable in advance and includes the cost of all luncheons and meeting materials:

Management Information Systems \$350.

SEND TEAMS: Send a group of executives in order to benefit from different management viewpoints and interaction. Company registrations for three, including luncheons and materials \$295 per person. Other discounts available for larger groups. Please contact AMR for details.

CANCELLATIONS AND REFUNDS: Confirmed registrations can be cancelled up to 5 days prior to seminar date. Registrations cancelled later than 5 days are subject to a \$50 service charge. Participants who have not cancelled reservations 3 days prior to the meeting are subject to the entire fee. Substitutions may be made at any time.

HOTELS: Although AMR does not arrange hotel accommodations, the hotels will hold a limited number of rooms and applicants should act promptly to take advantage of this service. Please contact the respective hotel directly mentioning AMR to assure preferred treatment.

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Data Base Design
EDP Systems For General Ledger Accounting
Marketing Information Systems
EDP Systems For Accounts Receivable
EDP Systems For Accounts Payable

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Gentlemen: Please include me in your seminar.

MANAGEMENT INFORMATION SYSTEMS

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The Fairmont Hotel The Conrad Hilton Hotel
- ☐ New York—March 1-3
The Roosevelt Hotel

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STAT

OFFICER CLASSIFICATION STRUCTURE CHART

(To be used in conjunction with AFM 36-1)

AFVA 36-1B

15 May 1987
Effective 31 July 1987

CAREER AREA	CODE	UTILIZATION FIELD TITLE	AFSC	AFS TITLE
OPERATIONS	10	PILOT	1005	Pilot, Helicopter
			A	UH-1H-10
			B	UH-1H-21
			C	UH-1H-3
			D	UH-1H-3
			E	Other
			1005	Pilot, Search-Rescue
			A	HO-1A
			B	HO-1A
			C	HO-1A
			D	Other
			1045	Pilot, Transport
			A	C-119
			B	C-119, HC-119
			C	C-119, T-29
			D	C-119
			E	C-119, VC-119
			F	C-119, T-40
			G	C-119, T-40
			H	C-119, T-40
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			L	C-119, T-40
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			1055	Pilot, Troop Carrier
			A	HC-130
			B	HC-130
			C	HC-130
			D	HC-130
			E	Other (includes T-29, C-47, C-119, T-37, T-40)
			1065	Pilot, Tanker
			A	KB-29
			B	KB-29
			C	KB-29
			D	KB-29
			E	Other (includes C-119)
			1115	Pilot, Tactical Fighter
			A	F-4E, F-4E
			B	F-4E
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			1125	Pilot, Fighter-Interceptor
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			1225	Pilot, Tactical Bomber
			A	B-57
			B	B-57
			C	B-57
			D	B-57
			E	Other (includes B-26)
			1235	Pilot, Strategic Bomber
			A	B-57
			B	B-57
			C	B-57
			D	B-57
			E	Other
			1239	Pilot, Reconnaissance
			A	U-2, RB-57F
			B	U-2
			C	U-2
			D	U-2
			E	Other
			1245	Pilot, Systems Operator
			A	U-2, RB-57F
			B	U-2
			C	U-2
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			E	Other
			1255	Pilot, Training Instructor
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			E	Operations Staff Officer
			F	Operations Staff Officer
			G	Operations Staff Officer
			H	Operations Staff Officer
			I	Operations Staff Officer
			J	Operations Staff Officer
			K	Operations Staff Officer
			L	Operations Staff Officer
			M	Operations Staff Officer
			N	Operations Staff Officer
			O	Operations Staff Officer
			1655	Operations Staff Officer
			A	Operations Staff Officer
			B	Operations Staff Officer
			C	Operations Staff Officer
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